



**CERTIFIED MAIL - RETURN RECEIPT REQUESTED** 

2018 JAN 18 PM 2: 53

LAY A MANAGEREAT EISTN'CT

Martinez Refinery

PO Box 711

2066

Martinez, CA 94553-0071 Tel (925) 313-3000

5038,5047,5046,

5047,5046, Fax (925) 313-3065 5009, 5010, 5043, 5011, 5044 5041, 4992, 5042, 4993,

4974, 4976 (2), 5039, 5040

BAAQMD DEV. # 4903, 4978, 4964, 4998, 4973.

DATE REC'D

January 10, 2018

Director of Compliance and Enforcement Bay Area Air Quality Management District

375 Beale Street, Suite 600

San Francisco, CA 94105 Attn: Title V Reports

Subject:

Semi-Annual Title V Deviation Summary Report

July 1, 2017 - December 31, 2017

To Whom It May Concern:

Please find Shell Oil Products US, Martinez Refinery's Semi-Annual Title V Deviation Summary report for the period of July 1, 2017 through December 31, 2017. This report includes a summary of the inoperable monitors for the second half of 2017.

The refinery's Responsible Official, Tom Rizzo, has signed the reports.

If you have any questions regarding this matter, please contact Kathy Wheeler at (925) 313-3722.

Sincerely yours,

Manager, Environmental Affairs Department Shell Oil Products US, Martinez Refinery

Attachments

Title V deviations for the reporting period are summarized below:

4903 Event Started: 7/22/2017 3:27 PM Stopped: 7/22/2017 3:32 PM Event Description: Ground Level Monitor (GLM) H2S analyzer S-2342 at the Ace Hardware site, showed an indicated excess of greater than 60ppb in a 3 minute average. Ongoing Event Abatement Device: Source Number: 1A1470 Emission Point:

May have resulted in a violation of: AQMD: Reg 9 Rule 2 Sec 301 Permit:

Probable Cause: Problem with flare vapor recovery compressor resulted in a 9 minute flaring event. GLM spiked during flaring event.

Corrective actions or preventative steps taken:

The problem with the compressor was quickly corrected to stop the flaring

499		4964		4978
498 Event Started: 7/8/2017 8:00 AM Ongoing Event Stopped: 9/1/2017 8:00 AM Ongoing Event	Event Description: While isolating fuel to the DC Clean Fuels Flare. (caused a loss of all pilots to the flare. There was Probable Cause: Labeling was confusing on piping.  Corrective actions or preventative steps taken: The natural gas was restored to the north field as	Event Started: 9/7/2017 4:35 AM Ongoing Event	Event Description: A tank roof hatch cover for the independent high Probable Cause: The seal/gasket failed on the hatch.  Corrective actions or preventative steps taken: Repairs were made to seal the leak.	Event Started: 8/16/2017 3:57 PM Stopped: 8/17/2017 2:31 PM  Ongoing Event
Source Number: 1755  Abatement Device:  Fmission Point:	While isolating fuel to the DC Clean Fuels Flare (5-4201) pilots to the South field, the natural gas was inadvertently isolated to the North Field as well which caused a loss of all pilots to the flare. There was no flaring or venting during this time (the water seal was intact).  Labeling was confusing on piping.  The natural gas was restored to the north field as soon as the problem was discovered. The piping and valves were re-labeled to make it more clear.	Source Number: 4201 Abatement Device : Emission Point:	A tank roof hatch cover for the independent high level alarm was found leaking >100ppm on TK-1134 (S-1134).  The seal/gasket failed on the hatch.  Repairs were made to seal the leak.	Source Number: 1134 Abatement Device: Emission Point:
May have resulted in a violation of:  Permit:  AQMD: Regulation 8 Rule 5 Sec. 401  Other:	as inadvertently isolated to the North Field as well which seal was intact).  and valves were re-labeled to make it more clear.	May have resulted in a violation of :  Permit:  AQMD: Regulation 12 Rule 11 Sec 503  Other: 40 CFR 60.18	1134).	May have resulted in a violation of:  Permit:  AQMD: Reg 8 Rule 5, Sec 306.2  Other:

Corrective actions or preventative steps taken:

Event Description: We did not meet Reg 8 Rule 5 Sec 401 requirements to inspect our tank seals on TK-1334 (S-1755) and TK-1147 (S-1147) no later than 8 months from the last inspection date.

Probable Cause: Mis-communication between operations and tank inspection contractor led to belief that tanks had been inspected within the 8 month period.

The tanks were immediately inspected when the problem was discovered and were found in compliance. Operations and the contractor discussed the importance of communication and timely submittal of tank inspection reports.

Sunday, January 07, 2018

Corrective actions or preventative steps taken:

The DEA column was immediately put back on line

Event Description: Refinery fuel gas H2S analyzer 9A1610 showed an indicated excess of the 162 ppm 3 hour average limit for H2S in RFG.

Probable Cause: High level in the caustic relief drum during shutdown of the VGT DEA column for required internal inspection.

5046 	5039 E	Prev Corr
Event Started: 10/12/2017 8:12 PM	Event Started: 10/10/2017 9:27 PM  Stopped: 10/11/2017 4:00 AM Ongoing Event  Event Description: Ground Level Monitor (GLM) H2S analyzer S-2344 at the ETP Site show average H2S limit. The 3 minute average was exceeded on 10/10 from limit was exceeded from 3:38am - 4:00 am  Probable Cause: A blower on ETP 3 was put back in service resulting in the GLM excess. Corrective actions or preventative steps taken: The blower was shut down.	Event Started: 10/9/2017 4:59 PM Ongoing Event  Stopped: 10/9/2017 9:50 PM Ongoing Event  Event Description: Ground Level Monitor (GLM) H2S analy average H2S limit.  Probable Cause: Dissolved oxygen dropped in ETP3 during in the GLM excess.  preventative steps taken: The blower was shut down again.
Source Number: 52A1265 Abatement Device: \$7000	nber: 52A1265 vice: \$7000 voint: red an indicated excess of the 60, 21:27 - 21:37 and on 10/11 fro	Source Number: 52A1265  7 9:50 PM Ongoing Event Abatement Device: 57000  Ground Level Monitor (GLM) H2S analyzer S-2344 at the ETP Site showed an indicated excess of the 60 average H2S limit.  Dissolved oxygen dropped in ETP3 during blower maintenance resulting in anaerobic conditions. When the blower was shut down again.
May have resulted in a violation of:  Permit:  AQMD: Regulation 9 Rule 2 Section 30	Permit:  AQMD: Regulation 9 Rule 2 Section 30 Other:  Dpb 3-minute average H2S limit and the 30-ppb hourly m 00:28 - 00:36 and 2:03 - 2:06. The hourly average	May have resulted in a violation of:  Permit:  AQMD: Regulation 9 Rule 2 Section 30 Other:  ppb 3-minute average H2S limit and the 30-ppb hourly.  the blower was put back in service H2S was released

Corrective actions or preventative steps taken:

Event Description: Ground Level Monitor (GLM) H2S analyzer S-2344 at the ETP Site showed an indicated excess of the 30-ppb hourly average H2S limit. The hourly average limit was exceeded from 20:12 - 20:20(daylight savings time)

Emission Point:

Probable Cause: Operational issues on the ETP3 biotreater resulted in anaerobic conditions and the evolution of H25.

Consulted wastewater treating experts and working to add oxidizer to the tank to neutralize the H2S.

Sunday, January 07, 2018

Corrective actions or preventative steps taken:

Probable Cause: Operational issues on the ETP3 biotreater resulted in anaerobic conditions and the evolution of H2S.

Ground Level Monitor (GLM) H2S analyzer S-2344 at the ETP Site showed indicated excesses of the 60 ppb 3 minute H2S limit and the 30-ppb hourly average.
H2S limit during the day.

Ongoing addition of oxidizer to the tank to neutralize the H2S.

Event Description:

Corrective actions or preventative steps taken:

Event Description: Ground level Monitor (GLM) H2S analyzer S-2344 at the ETP Site showed indicated exceedance of the 60 ppb 3 minute average H2S limit.

Probable Cause: Operational issues on the ETP3 biotreater resulted in anaerobic conditions and the evolution of H2S.

Ongoing addition of oxidizer to the tank to neutralize the H2S

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Corrective actions or preventative steps taken:

Oxidizer was added to the tank to neutralize the H2S

Event Description: Ground Level Monitor (GLM) H2S analyzer (S-2344) at the ETP site showed an indicated excess of the 60 ppb 3 min average and the 30 ppb hourly average H2S limit due to an upset at ETP #3

Probable Cause: Operational issues on the ETP3 biotreater resulted in anaerobic conditions and the evolution of H2S.

Sunday, January 07, 2018

Corrective actions or preventative steps taken:

Event Description: Two tank roof hatches were found leaking > 100ppm on TK-610, S-610. Repairs have been completed.

Probable Cause: The seal around the hatches was leaking due to cracks in the sealant.

Repairs were completed by sealing the leaks with RTV

5066

Probable Cause: Power failure resulted in loss of SCR ammonia injection skid

Corrective actions or preventative steps taken:

Ammonia system was returned back to normal service after power loss

## Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

Signature of Resp6

Print Name

1/8/18

Date

## BAAQMD Title V Permit 6 Month Monitoring Report

From 7/1/2017 to 12/31/2017

Sunday, January 07, 2018